Patent Application Number: 10/044,009

#### In the Claims

- 1. (Currently Amended) A metallization stack in an integrated MEMS device, the metallization stack comprising:
  - a substrate having an electrically conductive structure;
  - a field oxide, having a contact hole therein, formed over said substrate;
  - a silicide layer formed in said contact hole of said field oxide;
- a titanium-tungsten layer, formed directly on said silicide layer, to operatively contact said electrically conductive structure in said substrate; and

an integral platinum layer;

said <u>integral</u> platinum layer having a first portion formed directly on said titanium-tungsten layer;

said <u>integral</u> platinum layer having a second portion formed directly on said field oxide; said silicide layer, said titanium-tungsten layer, and said <u>integral</u> platinum layer, together, forming an electrical connection to said electrically conductive structure.

- 2. (Previously Amended) The metallization stack of claim 1, wherein said electrically conductive structure is an active silicon element.
- 3. (Previously Amended) The metallization stack of claim 2, wherein said contact hole exposes a portion of a surface of said substrate at a bottom of said contact hole and said silicide layer is formed only on the exposed portion of the surface of said substrate.

#### Claim 4 (Cancelled)

(Previously Amended) The metallization stack of claim 1, wherein the integrated MEMS device is an optical MEMS.

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(Previously Amended) The metallization stack of claim 1, wherein the integrated MEMS device is a Bio-MEMS device.

(Currently Amended) The metallization stack of claim 6, wherein said <u>integral</u> platinum layer forms a corrosive resistant electrode.

8. (Previously Amended) The metallization stack of claim 7, wherein said electrically conductive structure is an interconnect of the Bio-MEMS device.

## Claims 9-29 (Cancelled)

(Previously Presented) The metallization stack of claim 1, wherein said silicide layer is a platinum silicide layer.

### Claim 31 (Cancelled)

Gurrently Amended) A metallization stack in an integrated MEMS device, the metallization stack comprising:

- a substrate having an electrically conductive structure;
- a field oxide formed over said substrate;
- a silicide layer formed on said field oxide;
- a titanium-tungsten layer, formed directly on said silicide layer, to operatively contact said electrically conductive structure in said substrate; and
  - an integral platinum layer;

said <u>integral</u> platinum layer having a first portion formed directly on said titanium-tungsten layer;

said integral platinum layer having a second portion formed directly on said field oxide.

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(Previously Presented) The metallization stack of claim 32, wherein said electrically conductive structure is an active silicon element.

## Claim 34 (Cancelled)

MEMS device is an optical MEMS.

MEMS device is a Bio-MEMS device.

(Currently Presented) The metallization stack of claim 36, wherein said integral platinum layer forms a corrosive resistant electrode.

28. (Previously Presented) The metallization stack of claim 27, wherein said electrically conductive structure is an interconnect of the Bio-MEMS device.

(Previously Presented) The metallization stack of claim 32, wherein said silicide layer is a platinum silicide layer.

Claims 40-62 (Cancelled)